

Commencement

SUMMER 2021

Lubbock, Texas

August 7, 2021





TEXAS TECH UNIVERSITY®

SUMMER 2021

Commencement

Saturday, August 7, 2021
UNITED SUPERMARKETS ARENA

9:00 a.m. and 1:30 p.m.
LUBBOCK, TEXAS

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MISSION

As a public research university, Texas Tech advances knowledge through innovative and creative teaching, research, and scholarship. The university is dedicated to student success by preparing learners to be ethical leaders for a diverse and globally competitive workforce. The university is committed to enhancing the cultural and economic development of the state, nation, and world.

TEXAS TECH UNIVERSITY ADMINISTRATION

LAWRENCE E. SCHOVANEC, Ph.D.

*President;
Professor of Mathematics and Statistics*

RONALD L. HENDRICK, Ph.D.

Provost and Senior Vice President

JOSEPH HEPPERT, Ph.D.

*Vice President for Research & Innovation;
Professor of Chemistry*

NOEL SLOAN, J.D., CPA

*Senior Vice President for Administration & Finance,
Chief Financial Officer*

CAROL SUMNER, Ed.D.

*Chief Diversity Officer and Vice President of
the Division of Diversity, Equity & Inclusion*

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

TEDD L. MITCHELL, M.D.

*Chancellor,
Texas Tech University System*

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Dallas, Texas

MS. ARCILIA ACOSTA

Dallas, Texas

MR. J. MICHAEL LEWIS

*Chairman
Dallas, Texas*

MR. JOHN B. WALKER

Houston, Texas

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Fort Worth, Texas

MR. DUSTY WOMBLE

Lubbock, Texas

MR. PAT GORDON

El Paso, Texas

MR. MARK GRIFFIN

*Vice Chairman
Lubbock, Texas*

MS. GINGER KERRICK DAVIS

Webster, Texas

MS. KEAGHAN HOLT

Seguin, Texas

ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D.

*Vice Provost for Graduate and
Postdoctoral Affairs;
Dean, Graduate School;
Professor of Biology*

MICHAEL SAN FRANCISCO, Ph.D.

*Interim Dean, College of Arts & Sciences;
Professor of Biology*

TIM DODD, Ph.D.

*Dean, College of Human Sciences;
Professor of Hospitality Management*

JACK NOWLIN, Ph.D., J.D.

*Dean, School of Law;
Professor of Law*

MARGARET L. WILLIAMS, Ph.D.
*Dean, Jerry S. Rawls College of
Business Administration; Professor of Management*

DAVID D. PERLMUTTER, Ph.D.
*Dean, College of Media & Communication;
Professor of Journalism and
Creative Media Industries/Public Relations*

JESSE PEREZ MENDEZ, Ph.D.

*Dean, College of Education;
Professor of Education*

GENEVIEVE DURHAM
DECESARO, M.F.A.

*Interim Dean, J.T. & Margaret Talkington
College of Visual & Performing Arts;
Professor of Dance*

CINDY L. AKERS, Ed.D.

*Interim Dean, College of Agricultural
Sciences & Natural Resources;
Professor of Agricultural Communications*

AL SACCO, JR., Ph.D.

*Dean, Edward E. Whitacre, Jr.
College of Engineering;
Professor of Chemical Engineering*

ALIZA WONG, Ph.D.

*Interim Dean, Honors College;
Professor of History*

EARNSTEIN DUKES, M.L.S.

Dean of Libraries

URS PETER FLUECKIGER, M.Arch.

*Interim Dean, College of Architecture;
Professor of Architecture*

PATRICK C. HUGHES, Ph.D.

*Vice Provost for University Programs and Student
Success; Professor of Communication Studies*

FROM ITS VERY BEGINNING the Texas Tech University community has had a sense of destiny and an awareness of the impact it could and would have on Texas and the wider world. Originally named Texas Technological College, Texas Tech opened in 1925 with six buildings, four schools (Agriculture, Engineering, Home Economics, and Liberal Arts), and an enrollment of 914. Texas Tech grew rapidly after World War II, and in 1969 the Texas legislature approved a name change to Texas Tech University. In the years since, Texas Tech has grown to become the largest comprehensive higher education institution in the western two-thirds of the state. As the only campus in Texas that is home to a major university, law school, and medical school, the university is the major institution of higher education in a region larger than 46 of the nation's 50 states.

Today, Texas Tech continues to thrive, with more than 40,000 students enrolled in its 11 colleges: Agricultural Sciences & Natural Resources, Architecture, Arts & Sciences, Jerry S. Rawls College of Business Administration, Education, Edward E. Whitacre, Jr. College of Engineering, Honors College, Human Sciences, Media & Communication, J.T. & Margaret Talkington College of Visual & Performing Arts, and the Graduate School, as well as University Programs via the Provost's Office.

Because of its educational scope and purpose, as well as the size of the region it serves, Texas Tech University operates in numerous Texas locations beyond the Lubbock campus. In all, the Texas Tech University System—which includes Texas Tech University, Angelo State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso—has more than 44,000 students enrolled.









SINCE TEXAS TECH'S FIRST graduation ceremony in the spring of 1927, more than 200,000 undergraduate and graduate degrees have been awarded by the university. From these proud graduates have emerged captains of industry, world-renowned surgeons, noted authors, famous singers, acclaimed teachers and professors, attorneys, entrepreneurs, agronomists, scientists, professional athletes, and countless others who have claimed positions of service and responsibility in a rapidly changing world.

Texas Tech University graduates have governed states, flown in space, served as Presidential cabinet members, won Olympic gold medals, served as ambassadors to foreign countries, acted on Broadway stages, won Pulitzer Prizes, served in Congress, led Fortune 500 companies, and been watched by millions on network television news.

All Texas Tech graduates can point with pride to the solid academic preparation they received and the personal connections they made as Red Raiders. For beneath the spacious skies of West Texas and in the halls of brick and tile through which they strolled during their time on campus, generations of Texas Tech students have been provided a foundation for success that is without parallel. As they take their first steps into careers that will see many of them literally change the world, they can remember with certainty one important fact about Texas Tech University:

From here, it's possible.

COMMENCEMENT CEREMONY

Saturday, August 7, 2021
9:00 a.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
National Anthem	Ms. Erin Mayfield <i>Bachelor of Music, May 2021</i>
Welcoming Remarks	Mr. Mark Griffin <i>Vice Chairman, Board of Regents, Texas Tech University System</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick <i>Provost and Senior Vice President</i>
Presentation of Degree Candidates	Dr. David Doerfert <i>Associate Dean, Graduate School</i> Prof. Urs Peter "Upe" Flueckiger <i>Interim Dean, College of Architecture</i> Prof. Andrea Bilkey <i>Associate Dean, Talkington College of Visual & Performing Arts</i> Dr. Mayukh Dass <i>Associate Dean, Rawls College of Business</i> Dr. Patrick Hughes (presenting University Studies degrees) <i>Vice Provost, University Programs and Student Success</i> Dr. Al Sacco, Jr. <i>Dean, Whitacre Jr. College of Engineering</i>
Recognition of Outstanding Students Class of 2021	Dr. Ronald Hendrick
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Ms. Erin Mayfield <i>Bachelor of Music, May 2021</i>

COMMENCEMENT CEREMONY

Saturday, August 7, 2021
1:30 p.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
National Anthem	Ms. Erin Mayfield <i>Bachelor of Music, May 2021</i>
Welcoming Remarks	Mr. Dusty Womble <i>Board of Regents, Texas Tech University System</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick <i>Provost and Senior Vice President</i>
Presentation of Degree Candidates	Dr. Michael San Francisco <i>Interim Dean, College of Arts & Sciences</i> Dr. Tim Dodd <i>Dean, College of Human Sciences</i> Dr. Jesse Perez Mendez <i>Dean, College of Education</i> Dr. Cindy Akers <i>Interim Dean, College of Agricultural Sciences & Natural Resources</i> Dr. David Perlmutter <i>Dean, College of Media & Communication</i>
Recognition of Outstanding Students Class of 2021	Dr. Ronald Hendrick
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Erin Mayfield <i>Bachelor of Music, May 2021</i>

ACKNOWLEDGEMENTS

CONVOCATIONS COMMITTEE

Dr. Marcus Tanner, Chair
Mr. Ian Barba
Ms. Shelley Barba
Mr. Jacob M. Baum
Mr. Jordan Bell
Dr. Shane Blum
Dr. Rhonda Boros
Dr. Valerie Borum
Dr. Alec Cattell
Ms. Luciana C. Cavazos
Dr. Julie Chang
Dr. Danny Choi
Mr. Don Collier
Dr. Fanni Coward
Dr. John A. Dawson
Dr. Audra Day
Ms. Esther De Leon
Ms. Amiee Dixon
Dr. Nadia Flores
Ms. Jordan Frierson
Dr. Kristi Gaines
Dr. Courtney D. Gibson
Dr. Michael Giesselmann
Ms. Maggie Gilchrest
Ms. Sarah Hatley
Mr. Ben Haugland
Dr. Vijay Hegde
Ms. Laura Heinz
Dr. Annette Hernandez
Ms. Markicia Horton
Mr. Nate Imai
Dr. Catherine Jai
Mr. Jesse Jou
Ms. Jessica Kirschner
Dr. Belinda Kleinhans
Dr. Erin Marie Legacey
Dr. Jonathan Marks
Dr. Barent McCool
Ms. Sheon Montgomery
Dr. Mark Moore
Mr. Damian Pantoya
Dr. Michelle Pearson
Ms. Gabi Perez-Hunt
Mr. Tom Rohrig
Dr. Jhones Sarturi
Ms. Courtney Seely
Dr. Walter Smith
Ms. Stephanie Soto
Ms. Carrye Syma
Mr. Jake Syma
Dr. Leslie Thompson
Dr. Susan Tomlinson
Mr. Von Venhuizen
Dr. Jian Wang
Mr. Seth Warren-Crow
Dr. Richard Watson
Dr. Lynn Whitfield
Ms. Feruzan I Williams
Ms. Heidi Winkler
Dr. Aliza Wong
Ms. Kiley Yonavich

COLLEGE READERS

College of Agricultural Sciences & Natural Resources – Dr. Warren Conway
College of Architecture – Dr. Clifton Ellis
College of Arts & Sciences – Dr. David Roach
Rawls College of Business Administration – Mr. Derrick Ginter
College of Education – Dr. Ana Torres
Whitacre, Jr. College of Engineering – Mr. Derek Johnston
Graduate School – Dr. Comfort Pratt and Dr. Nick Bowman
College of Human Sciences – Dr. Cameron Brown
College of Media & Communication – Dr. Todd Chambers
University Programs – Ms. Raynie Gibbs
Talkington College of Visual & Performing Arts – Dr. Jacqueline Henninger

ADMINISTRATIVE REPRESENTATIVES

College of Agricultural Sciences & Natural Resources – Ms. Macie Williams
College of Architecture – Ms. Amy Peterman
College of Arts & Sciences – Ms. Kymberli Saldaña
Rawls College of Business Administration – Ms. Geleah Sharp
College of Education – Ms. Karen Noles
Whitacre, Jr. College of Engineering – Ms. Patricia Rodriguez
Graduate School – Ms. Vanessa Bara and Ms. Alyssa Reichert
Honors College – Ms. Cheyenne Belew
College of Human Sciences – Ms. Ashlee Brown
College of Media & Communication – Ms. Julia Heard Witt
University Programs – Ms. Kelsey Kern and Ms. Courtney Lynn
Talkington College of Visual & Performing Arts – Ms. Kathy Nordstrom

STUDENT BANNER BEARERS

College of Agricultural Sciences & Natural Resources – Ms. Kamryn Pepper
College of Architecture – Ms. Morgan Teague-
College of Arts & Sciences – Ms. Zeinab Hamade
Rawls College of Business Administration – Ms. Victoria Plott
College of Education – Ms. Emily Jumper
Whitacre, Jr. College of Engineering – Mr. Beau Compton
Graduate School – Ms. Stacy Chavez
College of Human Sciences – Ms. Shaye Romero
Honors College
9:00 a.m. – Mr. Grant Tekell
1:30 p.m. – Mr. Sean Morris
College of Media & Communication – Ms. Kinsey Gwinn
University Programs – Mr. Timothy Martinez
Talkington College of Visual & Performing Arts – Mr. Mitej Dongarkar

FACULTY BANNER BEARERS

9:00 a.m. – Ben Shacklette, M.Arch.
Associate Professor of Architecture,
College of Architecture
1:30 p.m. – Kevin Mulligan, Ph.D.
Associate Professor of Geography,
College of Arts & Sciences

LIBRARY BANNER BEARERS

Ms. Esther De-Leon

PROGRAM

This program was produced by the Office of the Provost in cooperation with the Convocations Committee and the Office of Official Publications at Texas Tech University, Lindsay Hallowell, Director, and Kaelene Hansen, Senior Editor.

This program is an unofficial list of Summer 2021 graduates and should not be used to determine a student's academic or degree status. The actual award of honors reflected on a student's diploma will be determined by the student's final academic average. The university's official registry for conferral of degrees is the student's permanent academic record kept by the Office of the Registrar.

PRESIDENTIAL MACE

CROWNED BY A FLAME symbolizing the Light of Knowledge, the Texas Tech University Presidential Mace is the symbolic staff of the power and authority of the university. It is constructed of lathed and molded bronze that has been rubbed with a layer of 24K gold. The school crest is presented on either side directly under the flame. Hand-rubbed black walnut has been used for the connecting shafts. The mace was designed by Professor Robly A. Glover in the School of Art. Professor Glover's artwork is on display throughout the United States and included in the permanent collections of the Art Institute of Chicago, The Yale Silver Collection, and the Victoria and Albert Museum in London.



MACE BEARERS

9:00 A.M., AUGUST 7 HEATHER GREENHALGH-SPENCER, Ph.D.
*Associate Professor of Curriculum and Instruction,
College of Education*

1:30 P.M., AUGUST 7 COURTNEY GIBSON, Ph.D.
*Associate Professor of Agricultural Education and Communications,
College of Agricultural Sciences & Natural Resources*

GRADUATION HONORS

Graduating seniors who have maintained an overall 4.0 GPA include the following:

Allyssa Marie Almager
Logan Yuki Boyd
Taylor Danae Clark
Caitlin Delaine Cockrell
Sydney Ellen English

Zarina Faizan
Alexander Jacob Felberg
Kinsey Dellis Gwinn
Zeinab Hamade
Emily Morgan Jumper

Sean Michael Morris
Kamryn Ashlee Pepper
John Parker Sarchet
Nash Elliott Swift
Morgan Lynne Teague

Grant Thomas Tekell
Katelyn Paige Tisdale
Daisy S. Wiles
Patricia Marie Wilson
Victoria Wright

The **doctoral degree** is the most advanced earned degree conferred by American institutions of higher learning. The doctorate usually represents prolonged periods of advanced study culminating in a dissertation intended to contribute substantially to the body of knowledge on the subject. The most widely sought doctorate is the Doctor of Philosophy, which no longer has an implication of philosophy as the major field of study but represents advanced research in any of the major fields of knowledge.

The **master's degree** is an academic honor bestowed upon students who have successfully completed work beyond the baccalaureate. Both a thesis and an oral examination are usually but not always required. When applicable, the graduate's thesis topic is listed.

DOCTOR OF EDUCATION

AGRICULTURAL EDUCATION

Michaelle Blake Coker

Dissertation: Bridging the Gap Between Equine Experts and General Horse Owners: A Qualitative Study

Major Professor: Courtney Gibson

Kellie Jean Logan Seals

Dissertation: The Effects of Authentic Experiential Learning and Student-teacher Relationships on Situational Career Interest of Rural Youth: A Mixed Methods Intervention Approach

Major Professors: Amy Boren Alpizar and Gary Briers

Miraj Wallace

Dissertation: Factors that Influence Female Secondary Agricultural Educator Job Satisfaction in Arizona

Major Professor: Courtney Meyers

HIGHER EDUCATION ADMINISTRATION

Steven Michael Underhill

Dissertation: Perceptions of Advisors to Student Veteran Organizations at Small Texas Community Colleges Regarding the Organization's Role in Engagement, Integration and Retention

Major Professor: Dave Louis

DOCTOR OF MUSICAL ARTS

Kerri Margaret Kathleen MacPhee

Dissertation: Scoreflow ©: An Invitation to Score Study through Computer-aided Construction of Flowcharts

Major Professor: Sarah McKoin

Tingting Tang

Dissertation: Mind and Music: Meditation in Vocal Practice for Transcendent Learning of Stephen Paulus' Song Cycle: All My Pretty Ones

Major Professor: Gregory Brookes

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Sawssan Boufous

Dissertation: Essays on the Market for Sustainability

Major Professor: Darren Hudson

A S M Shakil Haider

Dissertation: Three Essays on Economics of Crime and Immigration

Major Professors: Darren Hudson and Jamie Bologna Pavlik

Lianqun Sun

Dissertation: Consumer Preferences for Eco-labeled Household Cleaner Products: A Differentiated Demand Analysis

Major Professors: Benaissa Chidmi and Ryan B. Williams

AGRICULTURAL COMMUNICATIONS AND EDUCATION

Sofia de Los Angeles Brizuela Obando

Dissertation: Analysis of Leadership Skills of Extension Agents in the Coffee Sector of Costa Rica Through a Period of Crisis

Major Professor: Todd Brashears

Austin Ray Moore

Dissertation: An Exploration of Media Logic applied within Extension Video Communications

Major Professor: Erica Irlbeck

ANIMAL SCIENCE

Mallory Tatum DeChant

Dissertation: Training and Experience Factors Impacting Detection Dog Performance

Major Professor: Nathaniel Hall

BIOLOGY

Karishma Bisht

Dissertation: *Pseudomonas aeruginosa* Response to Environmental Cues: Insights into Physiological Adaptations in Biofilm and Potential Therapeutic Targets

Major Professor: Catherine Wakeman

Mohammad Jodeiri Farshbaf

Dissertation: The Exercise Derived Myokine, Irisin, as a Stress Counteracting Agent

Major Professors: Karina Alvina and Peter Keyel

Ruvini Wasanthika Mathangadeera

Dissertation: Co-overexpression of *OsSIZ1* and *LtRCA* in *Arabidopsis thaliana* to Further Improve Heat and Drought Tolerance

Major Professor: Hong Zhang

Carrie Dawn Monje

Dissertation: Developing Graduate Teaching Assistants of Biology Laboratories with Semester-long Teaching Professional Development

Major Professors: Lauren Gollahon and Lou Densmore

Caroline Schuster Oliveira

Dissertation: Individual and Combined Effects of Arctigenin, Cinnamaldehyde, and Chlorogenic Acid, on Breast Cancer Cells and Normal Mammary Epithelial Cells

Major Professor: Lauren Gollahon

Inosha Suranji Wijewardene

Dissertation: Improving Drought-, Salinity-, and Heat-tolerance in Transgenic Plants by Co-overexpressing Arabidopsis Vacuolar Pyrophosphatase Gene *AVP1* and Larrea Rubisco Activase Gene *RCA*

Major Professor: Hong Zhang

BUSINESS ADMINISTRATION

Inaiya Armeen

Dissertation: Exploiting User Participation to Enhance User Experience (UX): An Emotional Approach

Major Professor: Eric Walden

Stacy Lee Chavez

Dissertation: The Effects of Executive Gender on Firm Outcomes: An Examination of the Influence of Assimilation

Major Professor: Andrea Romi

Lindsey Nicole Duke

Dissertation: Gluttons for Punishment: Why some Professionals Choose the Hard Path

Major Professor: Hans Hansen

Keunyoung Kim

Dissertation: When are Busy Boards Beneficial?

Major Professor: Brett Myers

Jiao Li

Dissertation: Does XBRL Improve Usefulness of Financial Information to Investors? Evidence from Investors' Assessment of M&As

Major Professor: Tao Ma

Robert Lake Merriman

Dissertation: The Economic Relations Between Characteristics, Anomalies and Factors in Stock Returns

Major Professor: Will Armstrong

Weihong Ning

Dissertation: Impact of Social Network Sites (SNS) Addiction on College Students' Cognitive Performance

Major Professor: Fred Davis

Farzaneh Noghani Behambari

Dissertation: The Impact of COVID-19 on Charismatic Leadership: A Study of Academic Medical Centers in the U.S.

Major Professor: William Gardner

Nakul Ravindra Padalkar

Dissertation: Evaluation of Blockchain Technology for Cycle Counting in Supply Chains with Information Discrepancies

Major Professor: Donald Jones

CHEMICAL ENGINEERING

Khurshida Afroz

Dissertation: Equilibrium Electrosorption Behavior in a Capacitive Electrode for Water Desalination

Major Professor: Danny Reible

Sourya Banik

Dissertation: Rheological Response of Entangled Linear and Cyclic DNA Solutions and their Blends

Major Professor: Gregory McKenna

Nandini Deb Tumpa

Dissertation: Stiffness, Phenotype and Differentiation of Valvular Cells Correlate with Nature and Magnitude of Mechanical Stimuli

Major Professor: Carla M. R. Lacerda

Yuan Li

Dissertation: Thermodynamic Modeling of Polyelectrolyte Solutions and the Application in Phase Equilibrium Analysis of Ion Exchange Membrane Systems

Major Professor: Chau-Chyun Chen

Satish Chandra Hari Mangalara

Dissertation: Mechanical Spectral Hole Burning and Nonlinear Rheology of Glassy Polymers

Major Professor: Gregory McKenna

Yatish Sunil Rane

Dissertation: A Combined Numerical-experimental Investigation of Hydrodynamics of Needle-free Jet Injection and Multi-port Needles

Major Professor: Jeremy Marston

CHEMISTRY

Deepika Bedi

Dissertation: Metal Catalyzed Hydroboration of Unsaturated Bonds and Water Remediation

Major Professors: Michael Findlater and Anthony Cozzolino

Byeong Gwan Cho

Dissertation: Development of Glyco Analytical Methods for Sensitive Characterization of Glycans Derived from Biological Samples using LC-MS/MS

Major Professor: Yehia Mechref

Shipra Garg

Dissertation: Design and Synthesis of Abundant Lewis Acid Catalysts for Reductive Etherifications, Hydrogenation of Imines and Cycloaddition Reactions

Major Professor: Clemens Krempner

Mohammed Shahidul Islam

Dissertation: Ultrasound-assisted solid Lewis Acid-catalyzed Transesterification of Lesquerella Triglycerides for Biodiesel Synthesis

Major Professors: Dominick Casadonte and Carol Korzeniewski

Yangxue Liu

Dissertation: Multi-layer 3D Chirality: Design, Synthesis and Applications

Major Professor: Guigen Li

Chamila Priyadarshani Manankandayalage

Dissertation: Novel Lewis Acids and Intramolecular "Inverse" Frustrated Lewis Pairs (FLPs) for Small Molecule Activation

Major Professor: Clemens Krempner

Mingxiang Zhou

Dissertation: Application of New Methodologies using Principles of Green Chemistry in Organic Synthesis

Major Professor: David Birney

CIVIL ENGINEERING

Kushal Adhikari

Dissertation: Water Sustainability using the Pond-in-Pond Treatment System with Reuse

Major Professor: Clifford B. Fedler

Mintae Kim

Dissertation: Experimental Investigation on the Behavior of Pipe Piles in Sand

Major Professor: Hoyoung Seo

Lochana Poudyal

Dissertation: Use of Nano CaCO₃ for Sustainable Cement Production

Major Professor: Moon Won

CLINICAL PSYCHOLOGY

Tabitha C. Fleming

Dissertation: Physicians on Physical Punishment: A Mixed Methods Approach

Major Professor: Jason Van Allen

Kelsey Autumn Maloney

Dissertation: Neuropsychological Assessment and Comorbidities within Justice-involved Youth

Major Professor: Adam Schmidt

Babetta Betsy Mathai

Dissertation: Level of Agreement Between Subjective and Objective Measures of Youth Physical Activity

Major Professor: Jason Van Allen

Allison R. Morton

Dissertation: An Examination of Trauma-focused Cognitive Behavioral Therapy and Externalizing Behavior Problems in Adolescents

Major Professor: Adam Schmidt

Molin Shi

Dissertation: Examining the Mediating Effects of Experiential Avoidance on the Relations Between Drinking Motives and Problematic Alcohol Consumption

Major Professor: Andrew Littlefield

COMPUTER SCIENCE

Meznah Abdullah Alamro

Dissertation: On the Trade-offs Between the Security and PUFs Properties of Delay-based PUFs

Major Professor: Yu Zhuang

Shuvalaxmi Dass

Dissertation: Reinforcement Learning for Generating Secure Configurations

Major Professor: Akbar Siami-Namin

Van Vung Pham

Dissertation: Integrating Visual Analytics and Machine Learning Approaches for Analyzing Multivariate Proximal Sensor Data

Major Professor: Tommy Dang

COUNSELING PSYCHOLOGY

Alexandra Claire Brown

Dissertation: The Influence of Self-Related Constructs on the Relationship Between Depressive Symptoms and Academic Outcomes in College Students

Major Professor: Richard Stevens

Abigail Camille Cruz

Dissertation: Discrimination, Microaggressions, Appropriated Oppression, and Racial/Ethnic Socialization Among Latinx Emerging Adults: A Moderated-mediation Model

Major Professor: Brandy Pina-Watson

Parker James Donner

Dissertation: Fatalismo Beliefs as a Moderator of the Relationship Between Financial Stress, Depression, Anxiety and Life Satisfaction among Latinx College Students

Major Professor: Brandy Pina-Watson

GRADUATE CANDIDATES

Hossein Eslami

Dissertation: Personal Growth Initiative as a Parsimonious and Modifiable Predictor of Treatment Outcome in a Clinical Sample of University Students

Major Professor: Christine Robitschek

Ashley Elias Neduvellil

Dissertation: Self-efficacy Model of Bicultural Stress: A Resiliency Framework in Latinx College Students

Major Professor: Brandy Pina-Watson

Taylor R. Ramler

Dissertation: The Effectiveness of Changing Lives and Changing Outcomes: An Examination of Community Outcomes and Predictors of Community Failure among Adult Probationers

Major Professor: Robert Dean Morgan

COUNSELOR EDUCATION

John Tillman Avritt

Dissertation: Coaching Versus Family: Lived Experiences of Head Football Coaches and the Perceptions of their Spouses

Major Professor: Ian Lertora

Nathaniel L. Smith

Dissertation: Queer Counselors Helping Queer Youth with Internalized Homophobia: A Narrative Inquiry

Major Professors: Ian Lertora and aretha marbley

Robert Steven Talbert

Dissertation: Perception of Licensed Sex Offender Treatment Providers Preparation for Providing Treatment for Juveniles Who Have Committed Sexual Offenses

Major Professor: Bret Hendricks

COUPLE, MARRIAGE, AND FAMILY THERAPY

Derek L. Holyoak

Dissertation: Getting There: The Process of Overcoming Barriers to Couple Therapy

Major Professor: Stephen Fife

David Jackson Johnson

Dissertation: Strengthening Relationships through Digital Connection

Major Professor: Jaclyn Cravens Pickens

CURRICULUM AND INSTRUCTION

Yujiro Fujiwara

Dissertation: Analyzing Warmth and Competence in Secondary and Tertiary Thai Students' Judgements of Scientists from Internet Sourced Meme-based GIFs

Major Professor: Rebecca Hite

Reagan Ora Mason

Dissertation: Across the Tracks: An Autoethnography of Navigating an Urban Middle School

Major Professor: Jeong-Hee Kim

Karen E. McNallen

Dissertation: Teacher Innovation: Becoming a Global Educator in a Rural School

Major Professor: Walter Smith

Aaron Justin Sams

Dissertation: Analysis of the Transmission of STEM Policy Signals to School Districts and Classrooms in Southwestern Pennsylvania: A Quantitative Narrative Policy Framework Study and a Qualitative Case Study

Major Professors: Jessica Gottlieb and Gina Childers

Hollyce J. Schoepp

Dissertation: Tweet, You're It! Exploring K-12 Science Teachers' Use of Twitter to Support Professional Growth and NGSS Implementation

Major Professor: Jessica Gottlieb

Linda Curtis Smith

Dissertation: Motivating Students for STEM: Investigating the Influence of a STEM Course on Middle School Students' Attitudes toward STEM

Major Professor: Shirley Matteson

Nan Wu

Dissertation: Relationship among Teacher Collaboration, Mathematics Instructional Practices, and Eighth-grade Student Achievement in the United States

Major Professor: Jian Wang

Xiaofang Zeng

Dissertation: Effect of Preservice Teachers' Knowledge of Using Concrete Models Developed in a Mathematics Methods Course on their Questioning during Teaching: A Case of Whole Numbers

Major Professors: Jian Wang and Raymond Flores

ECONOMICS

Abeer Thawad Althawad

Dissertation: The Impact of Uncertainty on International Trade: A Case Study of the United States and Some Selected Trade Partners

Major Professor: Masha Rahnamamoghadam

EDUCATIONAL LEADERSHIP

Alexandra Magill

Dissertation: Confronting Chaos: How Secondary Campus Principals Face Novel Crisis Events

Major Professor: Alexander Wiseman

EDUCATIONAL PSYCHOLOGY

Sarah M. Crownover

Dissertation: Predicting Whether Second Grade Students Can be Classified into Reading Frequency Classes and Predicting Whether or Not They Live in Single-parent or Two-parent Households Based on Reading Frequency Class Membership

Major Professor: Tara Stevens

Narges Hadi

Dissertation: Examining the Effect of Distance Learning Environment on Graduate Students' Research Self-Efficacy: An Investigation of the Mediating Effects of Achievement Goal Orientations

Major Professor: Kamau Siwatu

Ye Sil Kim

Dissertation: Comparing Methods of Handling Missing Covariates in Meta-analysis: Complete Cases Analysis, Multiple Imputation, Full Information Maximum Likelihood and Bayesian Analysis

Major Professor: Jaehoon Lee

Megan Brooke Peck

Dissertation: Using the Good Behavior Game to Improve Teachers' Fidelity Implementation of the Good Behavior Game in the Classroom Setting

Major Professor: Tara Stevens

Yujuan Shi

Dissertation: Effectiveness of TAP Rubric in Improving K-12 Teacher Candidates' Teaching Performance

Major Professor: Jaehoon Lee

ELECTRICAL ENGINEERING

Behnam Askarian

Dissertation: Monitoring System for Detecting Eye Diseases Using Smartphone

Major Professor: Jo Woon Chong

Dong Guo

Dissertation: Simulations for Electron Emission and Maximum Current Output from Metal Emitter Arrays

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Thesis: What are the Effects of Different Cooking Methods of Potatoes in Persons with Type 2 Diabetes and Hypertension Who Follow the DASH Diet for 6 Weeks?

PERSONAL FINANCIAL PLANNING

Minglan Chen
Reagan Mikaela Lowrance

PHYSICS

Imtiaz Ahmad
Madeline Adele Brown
Thesis: Secondary Electron Emission of Clean and Hydrogen Layered Nickel Surfaces
Andrew Hunter Hamilton
Adil Hussain
Yasir Iqbal
Tanazza Khanam
Jessica Renee Lawrence
Eliza Claire Pattie
Timothy Mark Vincent III
Thesis: Cu and Ag in Si: the elusive Cu₀ and *Cu₀ defects
Kyle Gerald Peter Wipfli

PLANT AND SOIL SCIENCE

Harsh Rajesh Chaudhari
Thesis: Cellulose-Multi-Walled Carbon Nanotubes Composite Materials
Ubaldo Torres
Thesis: Herbicide Injury Detection in Cotton Using Unmanned Aerial System-based Multispectral Imagery

SPORT MANAGEMENT

Daniel Jose Duron
Jazmine Kierra Lyles

STATISTICS

Yawei Cheng
Geethanjalee Shashikala Mudunkotuwa
Appuhamilage

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

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Thesis: The Structural Impacts of Wildfire and Defoliation on Mexican Spotted Owl (*Strix Occidentalis lucida*) Nesting Habitat
Charles B. Jacobi
Thesis: Presence of the Spot-tailed Earless Lizard and Herpetofauna Escape Behavior
Manuel Silva, Jr.
Thesis: Influence of Woody Vegetation Patterns on Overwinter Spatial Ecology and Demographics of Scaled Quail
Shisbeth Danyra Tabora Sarmiento
Thesis: Long-term Trends in Water Quality, Land Cover, and Pesticide Use in Watersheds of the Southern High Plains and Their Association with *Prymnesium parvum*
Rowdy Alton White
Thesis: Winter Survival and Resource Selection of GPS Equipped Northern Bobwhite in the Rolling Plains of Texas

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Thesis: Learning in Healthcare Space: Case Studies
in Outpatient Diabetes Care Centers

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Sina Sadeghi
Yanick Tsopkeng Fotsa

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Thesis: Random Parameter Analysis of IIHS
Vehicle Death Rate Factors and Their Contribu-
tions to Fixed Object and Non-Domestic Collision
Severity

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Thesis: Calculating the Dielectric Strengths of
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Alexandre Soares Da Silva
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 Patricia Barron Ryan¹
 Lynett Saavedra²
 Alexandria Myshell Salazar¹
 Griselda Martinez Sanchez³
 Katrina Louise Schulze¹
 Griselda Segura²
 Vanessa Marie Seymore¹
 Antony J. Sherinian¹
 Nyle Marie Short²
 Kimberlee Kay Sides¹
 Lexy Jordan Sizemore¹
 Victoria Nicole Sotelo
 Melanie Brooke Stannard³
 Kamrynn Elise Striley²
 Haylee Lauren Swyers¹
 Alondra Anahi Tellez³
 Liliana Guadalupe Tenorio¹
 Jacob Ryan Wright Thomas²
 Kristen Ann Thomas
 Christian Thompson

Madeline Rae Torres²
 Héctor Tovar-López²
 Izabela Trujillo³
 Emily Vela³
 Mary Nicole Bautista Villa¹
 Cynthia Patricia Villarreal²
 Jose Luis Villaseñor¹
 Laney Scott Weaver¹
 Katelyn Webster¹
 Christopher Whitehead
 Megan Ruth Whitten²
 Colby Jawara Williams¹
 Jennifer Erin Wright³
 Victoria Wright¹
 Natasha Mareen Yonts



TEXAS TECH UNIVERSITY

Edward E. Whitacre Jr.
 College of Engineering

BACHELOR OF SCIENCE

CHEMICAL ENGINEERING

Reed Allen Nevermann
 Christopher Michael Santos
 Chung Him Tsoi
 Alyssa Nicole Weinhardt
 Ester Noemi Zelaya

CIVIL ENGINEERING

Margaret Mary Banschbach
 Aryan Bhattarai
 Sameer Bhusal³
 Jameel Tyrique Harrod
 Paul John Neidert
 Raju Shrestha

COMPUTER ENGINEERING

Caleb Zachary Cook
 Maclean Moore Jeffers
 Brady A. Lowe
 Casey Andrew Allan Mitchell
 Don Domiru Pithirage
 Rafael Perales
 Itzel Anahi Ruiz
 William Martin Sklenka

COMPUTER SCIENCE

Ebubekchukwu Joel Anaghara
 Suraj Kumar Bhetuwal³
 Bryce Jacob Bond
 Roshan Chapagain
 Jacob Finley Crawford
 Jalen Laron Flores
 Nolan Wade Ford
 Sagarika KC³
 Scott Duncan McFarlane
 Colin Edward Morrison
 Kamsiyonna Samuel Oduche
 Garrett A. Olsen³
 Daniel Moses Park
 Harrison Daniel Renner
 DeMarkus Antonio Taylor

CONSTRUCTION ENGINEERING

Michael Mincher
 Brizeida Yamilex Rodriguez

ELECTRICAL ENGINEERING

Adan Manuel Chavez
 Haley Rose Ferguson
 Emmanuel Martin Johnson
 MD Nazmuzzaman Joy
 Zachary Thomas Mahon
 Juan Manuel Olivares²
 Juan Luis Peña Holguin
 Solomon Hailemariam Sibhat
 Fatema Tus Sogra³
 Tesfa E. Zenebe³
 Jeah Burkey Ziatie

INDUSTRIAL ENGINEERING

Abdullah Mohammed Alayadah
 Makena Louise Caruso³
 Prosper Oziomachukwu Ezi
 Coalson Yurik Foss
 Anthony Ambrose Joseph³
 Connor Evan Niederhaus
 Caleb Christopher Sims
 Anthony Kade Veserra

MECHANICAL ENGINEERING

Arsalan Abutaleb
 Shane Austin Allen
 Marco Antonio Alvarez
 Dawson Henry Anderle
 William Harrison Blake II
 Seyedshayan Borghei
 Logan Yuki Boyd^{1,4}
 Julian Rene Broussard
 Waleed Abraham Cato
 Jordan Lane Causey
 Shilah Manish Chhadua
 Beau Matthew Compton¹
 Scott Charles Crisp
 Dylan Christopher DeGeer
 Trent Christian Doak
 Songoli Ebube Ekwuatu
 Ray Christopher Elias
 Bryanna Onika Feamster
 Wyman Hayden Fraley
 Eric Jacob Gardea
 Anissa Guerra
 Brannon Philip Hand
 Derek Paul Hebert, Jr.
 Jase Jacob Jones
 Koby Nicholas Landry
 Cheng Jung Lin
 Dillon Thomas Marnell
 Nicholas James Frederick Pettinos
 Stephanie Nicole Portman
 William Jason Renter
 Aidan James Sanderson
 Sada Sawadogo
 Andrew Seo
 Grant Thomas Tekell^{1,4}
 Sebastian Valbuena
 Sameer J. Virani

PETROLEUM ENGINEERING

Hadja Moussokro Latifa Binate²

¹Summa Cum Laude ²Magna Cum Laude ³Cum Laude ⁴With Honors ⁵With Highest Honors

UNDERGRADUATE CANDIDATES



TEXAS TECH UNIVERSITY

College of Human Sciences™

BACHELOR OF APPLIED ARTS AND SCIENCES

EARLY CHILDHOOD

Erica Nicole Thomas²

BACHELOR OF INTERIOR DESIGN

Sarah Alkhattari

Sarah Catherine Federation

BACHELOR OF SCIENCE

COUNSELING AND ADDICTION RECOVERY SCIENCES

Jaime Leigh Devenport

Jillian Marcella Hodges

Kaitlin Paige Mayer²

Parker Davis McCay

Sebonay Elise Reto

Sarah Grace Speicher³

Kendel Wibbing

HUMAN DEVELOPMENT AND FAMILY SCIENCES

Keaton Randall Allen

Jacqueline Alvarado

Brooke Elizabeth Balbinot

Alexa Marie Bruno

Francesca Teofila Burns

Claire Diane Cullar

Ingrid De Santiago

Kenna Jane Easley

Averie Leeanne Ellison

Sydney Ellen English¹

Dana Renae Fletcher

Iryssa Leanna Flores

Alyssa Michelle Friddle

John Tyler Gallia

Lauren Paige Grubke²

Hannah Sue Hill

Macy Rae Hitt

Ashley Marie Hudson

Skylar Joyce Kriechbaum^{3,4}

Morgan Ashley McLarty

Madison Kaye Molina

Kaylee Nicole Ochoa

Ezinne Ashley Orakpo

Juliana Tatlin Pierce

Simone Jacqueline Portnoy

Shaye Leigh Romero¹

Katie Grace Stackhouse

Kendall Nicole Thompson

Katelyn Paige Tisdale¹

Rachel Christine Watson

Lauren Michelle Wilson

HUMAN SCIENCES

Jensen Abraham

Andrew Luke Anderson¹

Uzorchukwu Obinna Azugwu

Alana Christine Baldwin

Kendall Bannowsky

Mauri Alesse Barron

Britton Love Beard

Mallory-Blair Behrhorst

Tessa Lynn Berend

Blaine Thomas Bethel
Merrivonne Billington
Katherine Ann Black²
Nicole Theresa Brodie
Paige Elizabeth Buchanan
Alissa Nichole Buchanan
Candice Nicole Calhoun
Sarah Elise Cesani¹
Antonio Jesus Chapa, Sr.²
Matt D. Clark
Fernando A. Corral
Carolyn Tyra Davis
Diana Laura De Lara¹
Jennifer Marie Donato
Aleah Dunn
Ijeoma U. Egbuna
Kenny Chimaobinna Elege
Lindsey Gerron Stark Fairchild
Brianna Rose Ferreira
Jennifer Fuerstenberg
Jordan Michelle Garcia
Sarah Naomi Garcia
Hallie Scott Gardner
Callie Rose Gilbert
Lauren Nicole Gould
Samantha Jane Harris¹
Daniel Lee Hawkins²
Connor Douglas Hawley
Cara Christine Hayden
Cailey Denise Hiller
Jaycie Danell Johnson
Reagan Elizabeth Jones
Kelsey Celeste Kincaid
Cornelius Kiprotich
Claire Kreiling
Jordyn Chanelle McCullough
Jordan Katherine Mills
Juliet Saleen Moeller
Omar Meghnate Mohamed
Davide Moretti³
Alejandro Andrew Noriega, Jr.³
McKenzi Grace Obermiller
Daisy Ontiveros
Elexus Ortega
Olivia Danielle Perales
Alexa Marie Pollock
Patricia Ponce¹
Lauren Elizabeth Raube
Payton Anne Renner
Jessie Roland Robles³
Mercedes Angelica Rodriguez
Miraya Renee Rodriguez
Giselle Rodriguez¹
Jodie Patrice Rodriguez³
Brinkley Lynn Roever
Celeste Nicole Ruiz
Seth Salgado
Alondra Elena Sanchez³
Kyndel Marie Sanders
Skylar Jade Sansom³
Emma Catherine Schexnayder
Brittney Leann Shaw²
Eva Solis¹
Giselle Solis
Taylor Swindling^{3,4}
Jayden Ann Thiem
Jaycee Ann Thiem
Erin Renee Timmerberg
Taylor A. Walton
Leisha Sanders Womble¹

NUTRITION

Jalin Rose Bradford
Carlie Louise Heiman³
Scott Lee Long
Carlos Rafael Villalobos
Eric Anthony Widjaja

PERSONAL FINANCIAL PLANNING

Nicholas Mitchell Burton
Hannah Katz²

RESTAURANT, HOTEL AND INSTITUTIONAL MANAGEMENT

Hannah Danielle Davis
Thomas Hunter Galvan
Jennifer Gonzalez
Matthew Robert Kirksey
Dario Perez
Kassel Williams

RETAIL MANAGEMENT

Cesaly Nicole Camara
Jenna Paige Coker
Mallory Dennis
Spencer Kennedy Gant
Adreanna Guerrero
Audrey Orson
Talyn Ali'ce Price
Mary Shannon
Carlos Fabian Vazquez



TEXAS TECH UNIVERSITY

College of Media
& Communication™

BACHELOR OF ARTS

ADVERTISING

Connor S. Akins
Sophia Marie Cannatella
2nd Degree: Economics
Ndochukwu Anne Chiedu
Madeline Paige Clark
Andrea Keith Conklin
Kristen Ellen Cunningham²
Samantha Marie Frost¹
Thomas David Glenn
Aaron Gregory Gray
Katelynn Renea Gray
Kinsey Dellis Gwinn¹
Michael Cole Hailey
Davis Reed Hawkins
Nicholas Brian Hayward
Devin Nicole Henry
Max Herrera
Robert Allan Hoane
Sadna Sharar Neel³
Carson Trent Newman
Jennifer Elizabeth Rivas
Lindsey Nicole Roberts
Abigail Elizabeth Rodriguez
Scott William Shalosky
Madilynn Grace Sheffield²
2nd Major: Communication Studies
Delvin Wilson
Rondrick Jajuan Young

¹Summa Cum Laude ²Magna Cum Laude ³Cum Laude ⁴With Honors ⁵With Highest Honors

UNDERGRADUATE CANDIDATES

COMMUNICATION STUDIES

Alexis Lynn Bauer³
Monica Teresa Canales
Cole Michael Carter
Michele Elizabeth Carter
Connor Reese Cole
JaMia LaShaun Collins
Allie Sophia Cope
Reise Kanan Deleon
Katelyn Marie Despres
Blair Alexandra Farris
Avery Hannah Fenton
Samantha Kate French
2nd Degree: Political Science
Garrison Davis Gandy
Geoffrey Case Gatlin
Victoria Alice Gotovac
Olajuwon Hakeem Gregory
William Kyle Honea
Delaney Grayce Jennings
Claire Jernigan
Liam Patrick Kelly
Taylor Ann Krause
Alejandro John Marquette
Malia Gabrielle May²
Quintin Jarel McGill
Myriena Raquel Morales
Michaela Jo Morgan²
Terry J. Naquin III
Michael Houston Phillips
Sarah Morgan Sanders
Dylan Rendall Sharp
Christopher Joesph Sherry
Lindsay Reagan Stewart
Addison Natalyah Taylor
Brandon Marie Turner²
Christiana Phoebe Marie Vrinios
Gregory Mitchell Wilson
Victoria Lynn Zander

CREATIVE MEDIA INDUSTRIES

Meghan Alexandra Elisabeth Arnold
Libby Braid Belcher¹
Bryce Allen Bevers
Brandon K. Boyd
Tate Gibbs
Edward Joseph Guerra
Fiona L. Maselunas
Gregory De'von Monday
Ryan Anthony Moscati
Bailey Keith Seay
Silas Cade Sonnenberg²
Caden Edward Thompson

DIGITAL MEDIA AND PROFESSIONAL COMMUNICATION

Alexandra Naomi Cartagena
Dylan Landon Tillm Moore³

JOURNALISM

Alli D'lan Cross¹

MEDIA STRATEGIES

Jackson Patrick Cantrell
Gabriela Elena Davidson
Brandon Huston Hall
Hunter Dean Hampton
Kyle Marc Kapper
John A. Lucio
Christopher James Maxwell
Michael David Nolen
William Kane Rodriguez
Wyatt James Schoppe
Ricky J. Sullivan

PUBLIC RELATIONS

Keller Giles Bradfield
Erin Paige Crosby³
Christopher Ngoc Do
Andrew Christopher Ferguson
Hannah Michelle Gilbert¹
Rachel Marie Greim
2nd Degree: Dance
Taylor Elizabeth Harrison
Sage Matthew Hebb
Hannah Sinclair Hegedus³
Brooke Elizabeth Henry
Nejahla Monique Jevone Hopkins^{1,4}
Alexa Bella Ibarra
Danielle Muntaha Kattan²
2nd Major: Advertising
Hannah Diane Kmak
Hannah Lynn Lindsay²
Emerita Lizzette Marquez
Sarah Elizabeth McMillian
Mattison Cox Noakes
Andrew C. Reed
Olinty Rickford³
Raenesha Ja'Toria Spurs
Nash Elliott Swift¹
Ethan Reid Tabor
Erik Vincent Ventura



TEXAS TECH UNIVERSITY
University Programs™

BACHELOR OF ARTS

UNIVERSITY STUDIES

Casey Vaughn Allen
Ali Marie Armstrong²
Madison Paige Atwood
Brady Carlisle Bolger
Justin Merrick Buck
Charlie Kyler Chadwick
Eric Anthony Cyr
Emily Rene Elliott
Eduardo Espinoza
Kaylee Brooke Estes
Britiany Fraire
Kasidi Alexandra Gorneau
Kaylor Kianna Harris
Michael Dale Johnston
Dustin B. Kutos
Miles Wilson Langerman
Timothy Rick Martinez²
Price Jarrott McGehee
Claudrice Emaria McKoy

Bryan Lee Medina
Robert Charles Merrill II
Kodee Lynn Myers
Ryan C. Miller
Kelly Corinne Mitchener
Mohammed Saad Mohiuddin
Naje Milan Murray
William Wade Paschal
Braxton J. Pena
Shelbi Elise Raetz
Morgon Thomas Robinson
Brandon Charles Rojo
Avery Merdith Shifflett
Matthew Thomas Smith
Nelson Soto
Courtney L. Woodham

BACHELOR OF SCIENCE

UNIVERSITY STUDIES

Connor William Finch
Ricka P. Jackson
Joseph Alexander Palumbo
Kurt Wayne Wilson



TEXAS TECH UNIVERSITY
J.T. & Margaret Talkington
College of Visual & Performing Arts

BACHELOR OF ARTS

DANCE

Rachel Marie Greim
2nd Degree: Public Relations
Anna Maria Rubio

MUSIC

Cory Sherard Powell II³
Karyme Gisel Renteria^{2,4}
Andrea Marie Wallace

THEATRE ARTS

Mitej Prakash Dongarkar²
Joshua Allen Foster
Kathryn Elizabeth Kettle

BACHELOR OF FINE ARTS

ART

Nemanja Vujnovic

THEATRE ARTS

Cara Nicole Ellison

BACHELOR OF MUSIC

Stuart Charles Anderson²
Kyle Anthony Buentello
Matthew Wesley Buniva
Issac Rene Cardona
Gabriel David Hernandez
Landon Joseph Reese

¹Summa Cum Laude ²Magna Cum Laude ³Cum Laude ⁴With Honors ⁵With Highest Honors

CANDIDATES FOR TEACHER CERTIFICATION

Cecili Ann Acosta
 Claudia Adame
 Hope Adams
 Jessica D. Adolph
 Lauren Nicole Akkad
 Adriana Alaniz
 Brenda Albarran
 Hannah Alexander
 Tania Maricela Amador
 Stuart Charles Anderson
 Amye Leigh Aviles
 Evelyn Rose Barbosa
 Alexandra Barrera
 Jarrod Lee Barron
 Alexis Leeann Batchelor
 Kayla Marie Bessellieu
 Shanea Marie Blackmon
 Mikaela Gabrielle Burson
 Mckaylee Raelynn Burzynski
 Maritza Cabrera
 Anyssa Lynn Canales
 Madellyne Nicole Cancino
 Issac Rene Cardona
 Edith Merari Castillo
 Loretta Ann Castillo
 Abigail Alexis Cavazos
 Maria Isabel Chacon Carrillo
 Tia Chisi
 Ana Cecilia Contreras
 Cassandra Jean Davis
 Kaitlan E. Deckard
 Erika Vanesa Dominguez
 Kelsey Michelle Doster
 Summer M. Foley

Madison Alyssa Fry
 Summer Marie Fuselier
 Kacey Garcia
 Lilibeth Garcia
 Joanna Lynn Garrison
 Jamey Rochelle Germany
 Ana Maria Gonzalez
 Elizabeth Gonzalez
 Jacqueline Gonzalez
 Kimberly Clarissa Gonzalez
 Lisseth Gonzalez Leal
 Jessakah Lea Gregier
 Kimberly May Guerra
 Ana Vanessa Guzman Bautista
 Hannah Loree Hall
 Patricia Marie Hamilton
 Amanda Dora Hernandez
 Ashley Lee Hernandez
 Brenda Hernandez
 Celia Hernandez
 Briselda Herrera
 Dua Hussain
 Alicia Jamison
 Emily Morgan Jumper
 Stephanie Lynn Kiernan
 Mikaila Ashton Klapper
 Mckenzie Leeanne Lawson
 Carolina Leija
 Liyana Lopez
 Nathalie Victoria Lopez
 Mark Alan Lozano
 Madison Alexis Luce
 Martín Manuel Luna
 Cheryl Lynn Luther

Callie Anne Lynn
 Kaelyn Raquel Mack
 Brian Keith Mahler
 Michelle Marie Maloney
 Sarahi Marin
 Kristi Broering Martin
 Ana Sandra Martinez
 Genesis Martinez
 Monserrat Martinez
 Juana Laura Monge
 Bryce Mckenzie Moore
 Adrienne Marie Munoz
 Kaily Murphy
 Dai Kim Nguyen
 Stephanie Evette Noiell
 Cassidy Leann Norwood
 Diana Ontiveros
 Izaiah Ortiz
 Cindy Palacios
 Imelda Palacios Ramirez
 Kimberly Nicole Partin
 Mackenzie Leigh Paulk
 Andrew Phillip Perez
 Gabriela Perez
 April Jean Phillips
 Clara Pinales
 Selena Ponce
 Omar Anthony Pulido
 Vanessa Ramirez
 Valerie Faith Ramsey
 Landon Joseph Reese
 Maryluz Renteria
 Jessica Rios
 Rhonda Sue Rios

Brittney Nicole Rodriguez
 Janie Jessica Rodriguez
 Patricia Barron Ryan
 Lynett Saavedra
 Alexandria Myshell Salazar
 Katrina Louise Schulze
 Griselda Segura
 Vanessa Marie Seymore
 Antony J. Sherinian
 Kimberlee Kay Sides
 Lexy Jordan Sizemore
 Melanie Brooke Stannard
 Kamryn Elise Striley
 Haylee Lauren Swyers
 Alondra Anahi Tellez
 Liliana Guadalupe Tenorio
 Jacob Ryan Wright Thomas
 Kristen Ann Thomas
 Christian Thompson
 Madeline Rae Torres
 Héctor Tovar-López
 Izabela Trujillo
 Mary Nicole Bautista Villa
 Jose Luis Villasenor
 Magan Amanda Warren
 Laney Scott Weaver
 Katelyn Webster
 Megan Ruth Whitten
 Colby Jawara Williams
 Jennifer Erin Wright
 Victoria Wright
 Natasha Mareen Yonts

CANDIDATES FOR MILITARY COMMISSIONS

The following students are being
 commissioned as Second Lieutenants
 in the United States Air Force:

Wyatt D. Mitchell
 Megan M. Sittner

The following student is being
 commissioned as a Second Lieutenant
 in the United States Army:

Gabriella Perez

COLLEGE BANNERS

The banners displayed at Texas Tech University commencement ceremonies are patterned on military, political, and trade guild insignia that date back to the Middle Ages and beyond. Known as gonfalons, they most closely resemble the flags created by Italian city states before and during the Renaissance. The Texas Tech University flags were individually designed to display symbols and colors that represent the areas of interest of each unit.

The **Faculty Banner** displays the university colors, red with black, and features the university seal encircled by the words “Seal of Texas Tech University.” The seal was designed by William Ward Watkin,



the original campus master planner, in 1924. The shield is a black escutcheon quartered by a red cross, on which are arrayed 10 cotton bolls, symbolic of the importance of cotton to West Texas and representing Lubbock County and the nine surrounding

cotton-producing counties. These symbols also reflect one of the original missions of Texas Technological College: “To provide students with a thorough education in textiles and technical engineering.” The shield features emblems that evoke the university, community, state and nation. In the upper-left quadrant, a book symbolizes religion and academic traditions. A star in the upper-right corner stands for the Lone Star State of Texas. In the lower left a key represents home, and in the lower right the lamp of knowledge indicates the primary mission of Texas Tech University: “To develop and advance knowledge.” Above the shield, an eagle, the national bird of the United States, spreads its wings. Mindful of the claims of all these constituencies, the faculty of the university create, transmit, and preserve knowledge.

The **College of Agricultural Sciences & Natural Resources** was one of the four founding schools of the university in 1924. The college banner was redesigned for use in the May 2005 graduation. Dr.



The design, with a map of the continent of North America, reflects the global scope of modern agriculture and natural resources management.

The dimensions and proportions of the **College of Architecture** banner are based on the Golden Ratio creating the Golden Rectangle, within which is the logarithmic Golden Spiral. The ancient Greeks recognized these geometries as significant and aesthetically pleasing, and architects from Vitruvius to Corbusier have used these proportions as a means of design. The blue diagonal lines represent the architectural diagram, while the blue-violet fabric, the designated color for Architecture, is woven in a chevron pattern representing the complexity of digital design and fabrication. The banner was designed by David Isern and Simon Alvarez, graduates of the College.



The blue background color of the **College of Education** banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master's and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building encircled by the words “College of Education” and “Scholarship, Leadership, Service” to represent the primary roles of the college as a unit dedicated



Marvin Cepica, former dean of the college, developed the design with approval and input from the College Marketing Committee. The background color, maize, was established by the Intercollegiate Code to represent the agricultural disciplines.

to preparing teachers and furthering educational scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

The **Jerry S. Rawls College of Business Administration** banner was designed through a collaborative effort of the staff



in the college's Undergraduate Services Center. The background color of the banner is drab. The central image on the banner is a map of the world centered on Lubbock with the Texas Tech University Double T symbol rising from a focal point in the

South Plains. The banner symbolizes the impact of globalization in the modern business environment.

The **College of Arts & Sciences** banner was redesigned in 2014 by Randy Lacy, unit coordinator in the college. Crafted



with classical typography and bold lines, the banner replaces the previous college seal with the famous Double T logo. The red and black colors appropriately represent the largest and most diverse college in the university.

The **Graduate School** banner is blue. Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and



the lamp represents a light by which to study. The banner was designed by the late Associate Dean Thomas Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.

The banner of the **Edward E. Whitacre, Jr. College of Engineering** features the seal of the college set on a field of orange,



the academic color for engineering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech University and the Red Raiders.

The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering:

- The light bulb, surrounded by a ribbon and questions, represents the inspiration of engineers to answer questions and solve problems.
- The square and globe represent the engineer's work as building blocks for the world.
- The hammer and screwdriver represent the practical application of the engineer's work.
- The atomic figure surrounding the beaker represents the confluence of math, science, and technology in the mind of the engineer.

The **Honors College** banner features a sky blue field onto which is placed a silhouette of one of the Administration Building bell towers in dark blue. Superimposed on the silhouette is the Honors College emblem in gold: an open book that transforms into a bird taking flight. This symbol represents how learning stimulates human creativity. At the bottom of the banner are

the words in gold: "University Honors College."

The **College of Human Sciences** banner was redesigned in 2016 and adapted from an original design by former faculty member Dr. Ben Goh. The design depicts an adult, an adolescent, and a child. The diversity of faces and ages represents the



families and communities served by the college in its mission to improve and enhance human lives through teaching, research, and outreach. The image of the globe represents the goal of not only serving

the lives of those in the local community, but also connecting with the global community.

The **College of Media & Communication** banner illustrates waves of information emanating from a single point—one voice heard by many. The banner is white



with a crimson background framing waves of information reaching the public. Crimson is the color assigned by the Intercollegiate Code to journalism, the common core subject area of the college. The white field represents honesty,

decency, and purity. Beneath the crimson is the name of the college.

The banner for **University Programs** exhibits the colors of Texas Tech with a red background trimmed in black. The focus of the banner is the silhouette of the Administration Building's bell tower, which is an iconic symbol of Texas Tech. Just as the university is comprised of many parts, University Programs integrates multiple programs from colleges across the university. The traditional Double T placed in a window of the tower signifies the



future that awaits students who complete these programs in preparation for successful careers.

The **J.T. & Margaret Talkington College of Visual & Performing Arts** banner is black with a blue drape surmounted by a silver swathe that evokes the creative energy infused in all the arts. The top of the banner features the words "College



of Visual & Performing Arts" in silver, linked by a dynamic red ampersand representing the merging of three departments into the college. Centered in the banner is the college's original award-winning logo designed by the Price

Group in 2002, the same year the college was founded. The logo is a circle divided into three sectors, each representing one of the three units of the college: a blue eye for the School of Art, a red lyre for the School of Music, and a golden spotlight for the School of Theatre and Dance. All three artistic icons are encased by a circular banner which reads: "Texas Tech University." The shape of the banner was selected through a student competition, and the banner was made by personnel in the Costume Shop of the Department of Theatre and Dance.

The symbols on the **Texas Tech University Libraries'** banner reinforce the idea that the Library is the center of knowledge on campus. As such, it is the guardian and giver of knowledge and



information. The key in the foreground of the banner symbolizes the Libraries' role as guardian and safe keeper of all ideas. In the not too distant past, knowledge was considered sacred or something that was best kept

locked away, thus the symbolism of the key. The flames symbolize the Libraries' other and equally important role as the giver of knowledge, providing access to wisdom. For centuries, the use of fire was believed to be man's first step on the path to civilization; one characteristic of fire is its ability to spread, which represents the Library's role as purveyor of knowledge. The colors of the flames symbolize the three broad branches of knowledge; scarlet for humanities, gold for sciences, and the purple flame for social sciences.

ACADEMIC DRESS AND PROCESSION



MASTER'S ROBE: Velvet facing around the neck corresponds to color representing the field of study; hood lining represents the colors of the institution that conferred the degree.

Wearing academic dress at commencement ceremonies dates from the early history of the oldest universities created during the twelfth and thirteenth centuries. Because educated people were almost always of the clergy, the black gown is an adaptation of the “cope,” a long mantle or cloak of silk or other cloth worn by church dignitaries in processions and on other occasions. The long gown and cowl (similar to the academic hood of today) were worn by priests and monks for warmth in the cold medieval buildings.

In the early centuries, a great diversity of color and style of cap, gown, and hood appeared in different universities of Europe. The European custom of wearing academic dress was later introduced at American colleges. Not until after 1895 was a uniform academic code of dress adopted by most U.S. colleges and universities. Today, the black robe, hood, and cap are worn at most institutions of higher learning. Some institutions have authorized doctoral gowns in colors other than the customary black.

The gowns used in American academic ceremonies vary according to the highest degree awarded to the wearer. Usually the bachelor's robe has long pointed sleeves and the master's has oblong sleeves, square at the end with a slit at the elbow. The doctoral gown is a more elaborate robe faced down the front with velvet and across the bell-shaped sleeves with three bars of velvet. The velvet facing and bars may be of the color distinctive to the field of study.

The doctoral hood has side panels and is slightly longer than the one worn for the master's degree. The color used in the velvet border of the hood indicates the field of study. The velvet border is widest on the doctor's hood, and the colors of the lining indicate the college or university that conferred the degree.



DOCTORAL ROBE: Velvet facing on front of robe and three bars on sleeve correspond to color representing the field of study; hood lining represents the colors of the institution that conferred the degree.

For example, those who have received advanced degrees from Texas Tech University wear hoods lined with red and black.

The Oxford—the so-called mortarboard—is black and has a long tassel fastened to the center. The tassel is usually worn with the pendant over the left front of the cap. Different colored tassels are often worn on the bachelor's and master's caps to indicate the type of degree. The tassel on the cap of the doctoral candidate, except for professional degrees, is either gold or black. The doctoral degree holders may also wear the velvet tam with a gold tassel.

Candidates for the undergraduate degree will wear the tassel on the right side of the cap at commencement. After the degrees have been conferred, baccalaureate degree recipients will turn the tassel to the left side of the cap, thus showing that they are now graduates. Those graduates who have the official Texas Tech Alumni Association class ring are invited to turn their rings at this time.

Candidates wearing red cords have earned the Latin designations of cum laude, magna cum laude or summa cum laude based on a minimum 3.5 cumulative grade point average. Candidates wearing kite-shaped medallions are Honors College graduates earning a minimum of 24 hours of Honors coursework. Medallions with red ribbons indicate a notation of “With Honors” (non-thesis) and gold ribbons indicating a notation of “With Highest Honors” (thesis).

Phi Beta Kappa students may wear their membership key as well as the society's dark blue honor stole and/or pink and blue honor cords. Members of Phi Kappa Phi, Mortar Board, and other honor societies may likewise display their societies' medallions and honor cords. Texas Tech University has five university-wide honoraries: Golden Key, Mortar Board, Omicron Delta Kappa, Phi Beta Kappa, and Phi Kappa Phi.

COLORS REPRESENTING FIELDS OF STUDY

The following is a list of colors established by the Intercollegiate Code representing departments of learning and fields of study:

Maize | Agriculture
Blue-Violet | Architecture
White | Arts, Letters and Humanities
Drab | Business Administration
Lilac | Dentistry
Copper | Economics
Light Blue | Education
Orange | Engineering
Brown | Fine Arts
Russet | Forestry
Maroon | Human Sciences
Crimson | Journalism
Purple | Law
Lemon | Library Science
Green | Medicine
Pink | Music
Apricot | Nursing
Silver Gray | Oratory (Speech)
Olive Green | Pharmacy
Dark Blue | Philosophy
Sage Green | Physical Education
Peacock Blue | Public Administration
Salmon Pink | Public Health
Gold-Yellow | Science
Citron | Social Work
Scarlet | Theology or Divinity
Gray | Veterinary Science

HONOR CORDS / MEDALLION

The following is a list of honor cords/medallions issued by colleges.

Agricultural Sciences & Natural Resources | Green
Architecture | White and Gold
Arts & Sciences | Royal Blue
Business Administration | Royal Blue and Gold
Education | Jade Green and Violet
Engineering | Orange
Honors | Honors Medallion
Human Sciences | Maroon
Media & Communication | Crimson
University Programs | Red
Visual & Performing Arts | Brown
Wind Energy | Blue and Green



UNDERGRADUATE ROBE: A red stole displaying the Double T and seal of Texas Tech University distinguishes students receiving baccalaureate degrees. Degree candidates wearing red cords will graduate with honors designations based on a minimum 3.5 GPA.

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

A professional photographer will be taking photos of graduates as they receive their diplomas. You may view and order photos online at www.candidcolorphotography.com. Click on "view proofs" and then "graduations." Images will be posted within 48 hours of the ceremony. Photographers also will be available after the ceremony for photos of friends and family with the graduates. Photographers will be located outside the arena near the north parking lot. There is no charge or obligation for having these photos taken.

COMMENCEMENT DVD

The Texas Tech Alumni Association encourages graduates to order a Texas Tech Commencement DVD to commemorate their achievement. The \$45 purchase also will include a one-year Texas Tech Alumni Association gift membership. This membership will help graduates stay connected to Texas Tech. To reserve a copy of today's ceremony, complete and mail an order form located at one of the tables in each corner of the concourse. Do not leave the forms on the tables. Please mail them to the address on the form. To learn more about the Alumni Association, visit www.TexasTechAlumni.org or call 806.742.3641.





TEXAS TECH TRADITIONS

Who's Sitting on a Horse? (And Why Is He Red?)

Will Rogers was one of the most famous entertainers in America in the 1920s and '30s, and his longtime friend, Amon Carter, was Texas Tech's first chairman of the Board of Directors. Rogers donated \$200 for the Texas Tech band to play at the football game against TCU in 1926 because he wanted people "to hear a real band." Then the cowboy humorist donated \$1,500 to buy band uniforms for the trip to Fort Worth. A few years after Rogers perished in a plane crash, Carter presented the statue of Rogers and his horse, Soapsuds, to Texas Tech. Sculpted by 18-year old Electra Waggoner Biggs, the statue is one of four in the nation. Before every home game, the Saddle Tramps wrap "Old Will" with red crepe paper. The statue also has been wrapped in black to mourn national tragedies.



Raider Red or the Masked Rider?

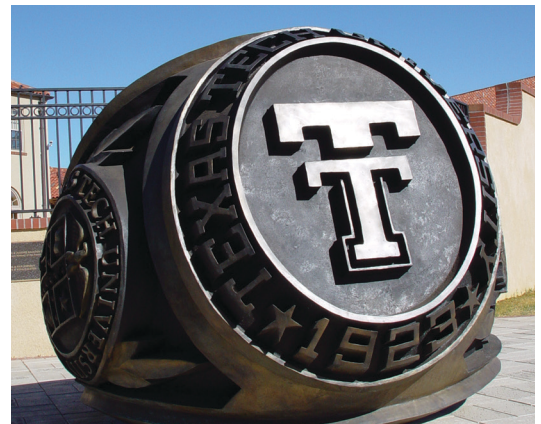
Not every university wants a horse in its stadium, so Texas Tech had to find an alternate mascot prior to the 1971 football season. That was the year the school's athletic conference passed a rule that prevented taking live animals to non-home games. That also was the year Raider Red was born from the imagination of cartoonist Dirk West. Raider Red changes from boots to soft-soled shoes for basketball games, and his student persona is kept a secret as he mingles with the crowds.



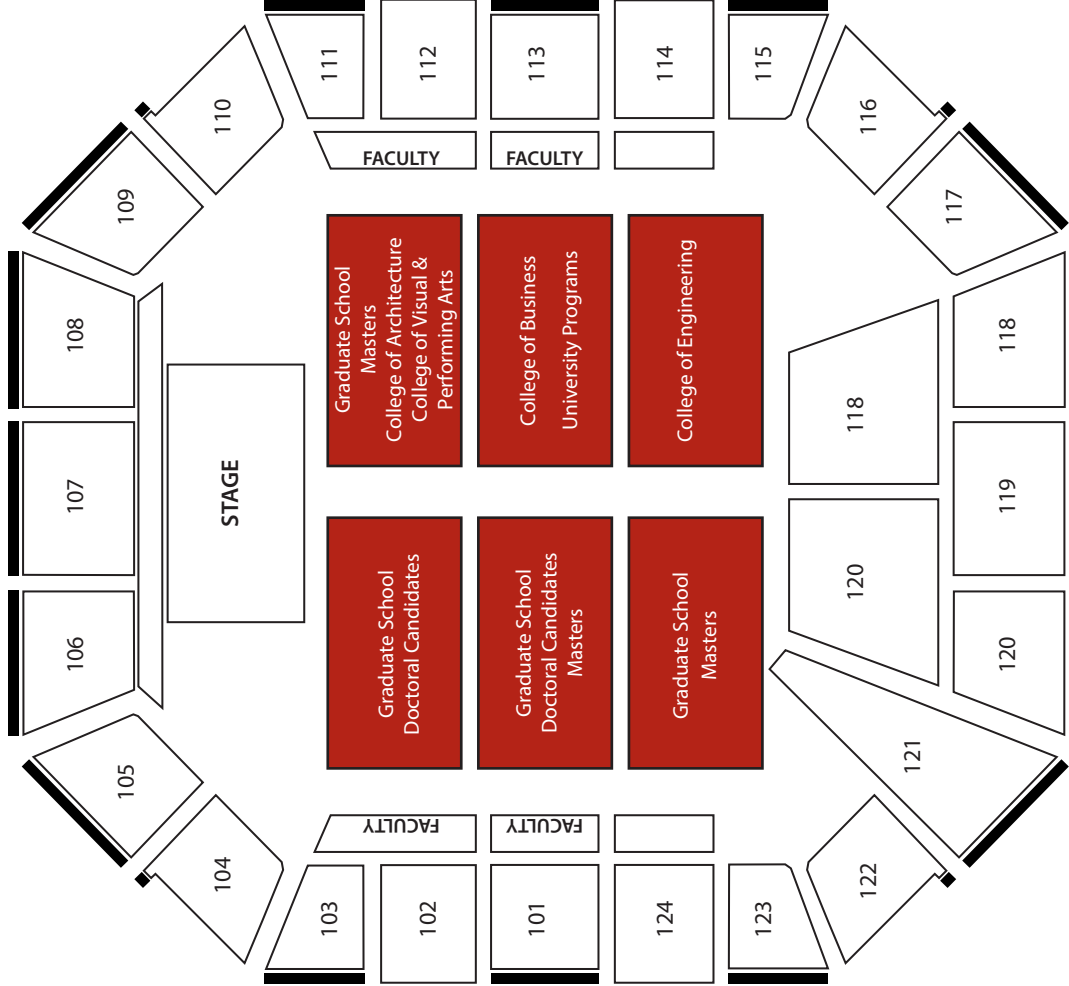
The Texas Tech Class Ring

As a constant reminder of their academic achievements and the traditions of Texas Tech University, students proudly wear the official Texas Tech class ring. This bronze sculpture of the official class ring sits next to the Merket Alumni Center. Traditionally the rings are worn with the university name facing inward when the students' hands are extended. After the degree is granted on graduation day, the ring can be turned around so that the name faces outward, a symbol that the new alumnus has a Texas Tech diploma and is ready to face the world.

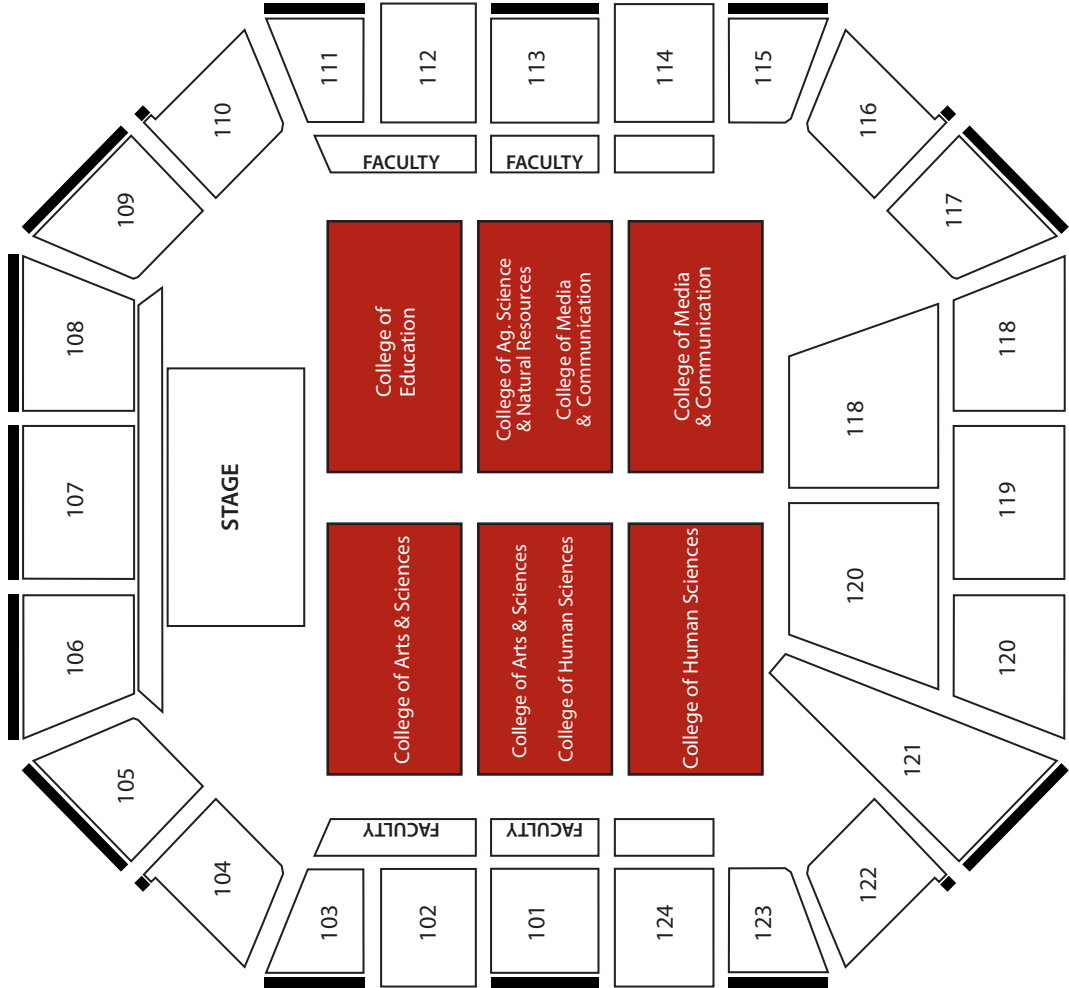
(www.TexasTechRing.org)

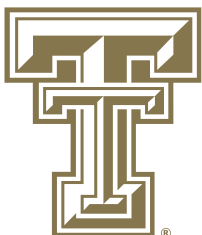


SATURDAY, August 7, 9:00 a.m.



SATURDAY, August 7, 1:30 p.m.





TEXAS TECH UNIVERSITY®

The first athletic teams of the university were known as the Matadors, a name that reflected the Spanish architectural influence on campus. The change from Matadors to Red Raiders occurred after a *Lubbock Avalanche-Journal* writer commented on the red uniforms and strong season of the 1932 football team, saying “the Red Raiders from Texas Tech” were the “terror of the Southwest Conference.” The name caught on and by 1936 the team was renamed the Red Raiders. No changes were ever made to the lyrics of the school song, which was penned in 1930. Page from 1936 Student Handbook courtesy of the Southwest Collection.

WORDS BY
R. C. MARSHALL
STUDENT 1930
TEXAS TECH COLLEGE

MATADORS

MUSIC BY
HARRY LEMAIRE
BANDMASTER
TEXAS TECH COLLEGE

Voice

Fight Mat-a-dors for Tech. Songs of love we'll
sing to thee. Bear our ban-ners far and wide.
Ev-er to be our pri-de. Fear-less cham-pions ev-er be.
Stand on heights of vic-tor-y. Strive for hon-or
ev-er more. Long live the Mat-a-dors